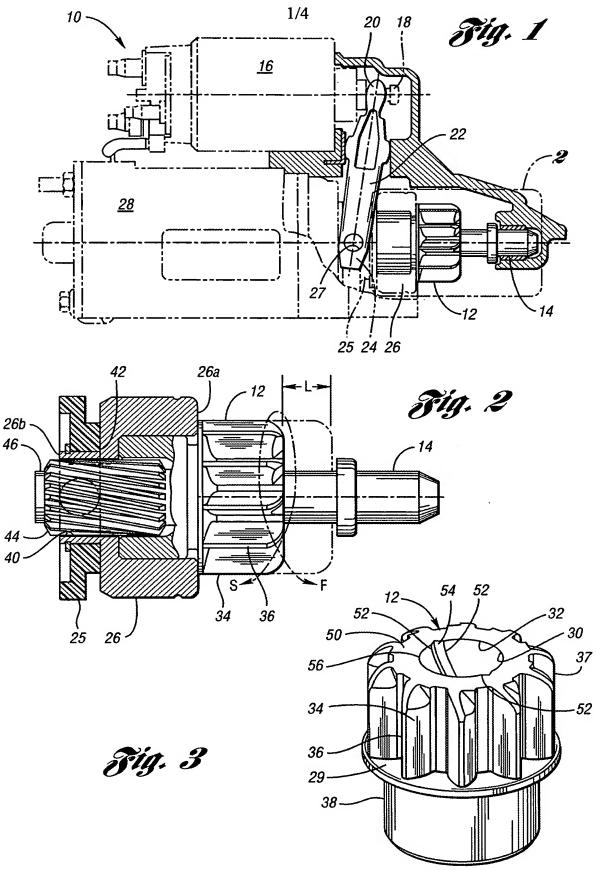
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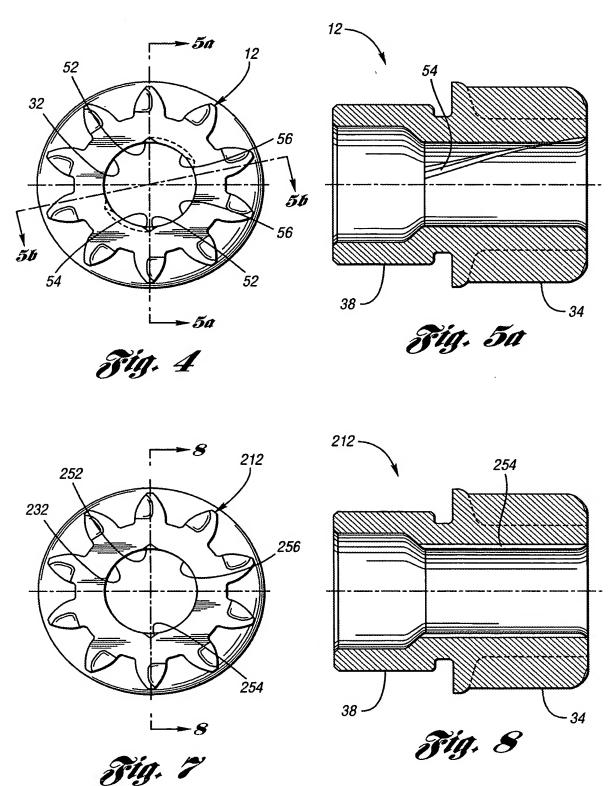
## Patent Application for BEARINGLESS PINION WITH CLEANING EDGES Inventor(s): Monroe et al. Application No.: 10/004,758; Attorney Docket No.: 10541-636 Replacement Sheet Mailed July 22, 2004





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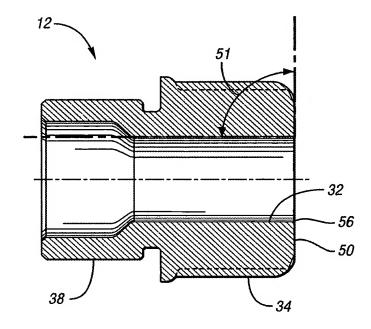
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110 --112 PROVIDING A PRIMARY EDGE FOR MOVING PARTICLES - 114 MOVING THE PINION IN A FIRST DIRECTION ALONG THE OUTPUT SHAFT - 116 CONTACTING THE PARTICLES ON THE OUTPUT SHAFT AS THE PINION MOVES IN THE FIRST DIRECTION THEREALONG - 118 RECEIVING THE PARTICLES IN THE GROOVE AS THE PINION MOVES ALONG THE OUTPUT SHAFT IN THE FIRST DIRECTION · 120 ROTATIONALLY AND LINEARLY MOVING THE PARTICLES IN THE FIRST DIRECTION IN THE GROOVE AS THE PINION MOVES ALONG THE DRIVE OUTPUT SHAFT - 122 MOVING THE PINION IN A SECOND DIRECTION OPPOSITE THE FIRST DIRECTION ALONG THE OUTPUT SHAFT - 124 RELEASING CONTACT OF THE PARTICLES 126 CONTACTING THE PARTICLES UPON SUBSEQUENT ENGINE START-UP - 128 FORCING THE PARTICLES ALONG THE SHAFT TO THE END OF LENGTH L AS THE PINION MOVES IN THE FIRST DIRECTION

Fig. 6